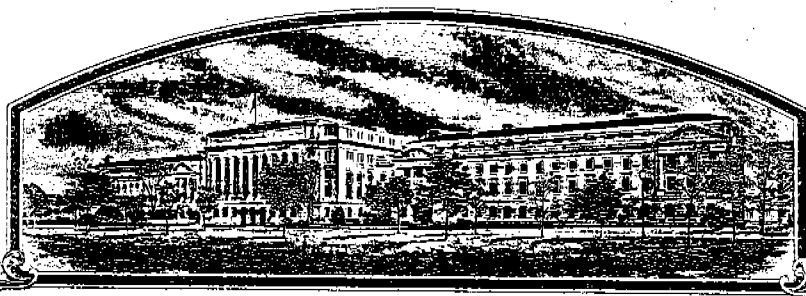


No.

7400106



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Minnesota Agricultural Experiment Station

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Hodgson'

In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 18th day of April in
the year of our Lord one thousand nine
hundred and seventy-five

Attest:

L. D. Rollins
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Buttz

Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION Hodgson	2. KIND NAME Soybean	FOR OFFICIAL USE ONLY PV NUMBER 7400106	
3. GENUS AND SPECIES NAME Glycine max	4. FAMILY NAME (Botanical) Leguminosae	FILING DATE 6-27-74	TIME 1:30 P.M.
	5. DATE OF DETERMINATION December 27, 1973	FEE RECEIVED \$ 250.00	BALANCE DUE \$ —
		\$ 250.00	\$ —
		\$ 250.00	\$ —
6. NAME OF APPLICANT(S) Minnesota Agricultural Experiment Station	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Institute of Agriculture University of Minnesota St. Paul, Minnesota 55101		8. TELEPHONE AREA CODE AND NUMBER 612/373-0867
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) State Experiment Station		10. STATE OF INCORPORATION	11. DATE OF INCORPORATION

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

J. W. Lambert
Department of Agronomy and Plant Genetics
Institute of Agriculture
University of Minnesota
St. Paul, Minnesota 55101

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty (See Exhibit C)
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☒ YES ☐ NO14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☒ NO14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

(DATE)

5/28/74

(DATE)

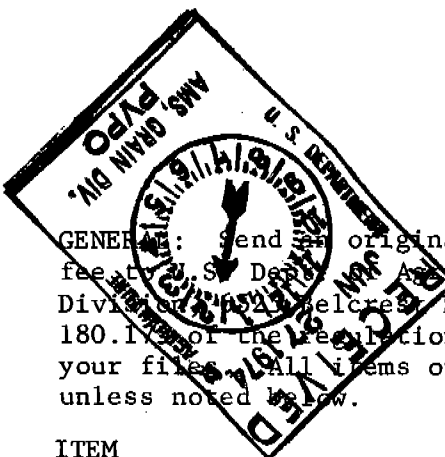
(SIGNATURE OF APPLICANT)

W. F. Hargis

(SIGNATURE OF APPLICANT)

Director, Minnesota Agricultural Experiment Station

INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to: U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 15515 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.1 of the Regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

REVISED RJS
Exhibit A

ORIGIN AND BREEDING HISTORY OF HODGSON SOYBEANS

Hodgson traces to an F_4 plant selected in the progeny of an F_3 plant from a cross of Corsoy and M372. M372 is also identified by the number M53-117 and is a selection from M10 x PI180.501. M10 is a Minnesota selection from a backcross of Lincoln x (Lincoln x Richland). PI180.501 is an introduction from the Max Planck Institute in Germany. The F_5 row from Corsoy x M372 was bulked to provide seed for yield-testing in F_6 . This seed was a mixture of hilum colors (yellow and buff). Yield testing initially was done on the mixture. When the superiority of the strain was evident, the progenies of 11 buff hilum plants were bulked as a seed source to compare with the mixture. Two years of testing indicated that the pure buff lot was equal or superior to the mixture. So a purification program was initiated with the original mixture as a source population. As a result, the progeny of 68 buff hilum plants eventually became the basis for the present foundation seed of Hodgson. Hodgson has been yield-tested in Minnesota for six years and regionally for three. It was released to registered and/or certified seed growers in Minnesota and five other states on April 1, 1974.

EXHIBIT B

Botanical Description of Hodgson Soybeans

'Hodgson' is an indeterminate Group I variety of soybean (Glycine max, L., Merr.). The plants are of medium height with 15 to 20 nodes on the main stem. They produce a medium broad but open canopy. The leaves are dark bluish green at full canopy with well defined lighter green veins. The seventh, eighth, ninth and tenth trifoliolate leaves are usually largest. Petioles of these leaves may be 10-12 inches long and the oval leaflets may be 2.5 to 4.0 inches in width. Leaflets on the upper leaves are smaller and the petioles shorter. In moderate spacings within rows, two to four well attached branches usually develop. Both the branches and the leaf petioles are attached at a medium angle with the main stem. An unusual characteristic of 'Hodgson' is the tendency of many plants (20-50%) to have the first two trifoliolate leaves attached opposite to each other at the same node rather than alternate at separate nodes. The axillary branches that commonly form on the lower nodes of the stem follow this "opposite" pattern at the first trifoliolate node on many plants also. The flowers are medium-sized and bright purple. Commonly there are two sessile flowers and one short raceme with two to five flowers at each node. The pubescence is gray and fairly dense. The stems tend to turn a fairly dark brown at maturity as do also the pods. This dark pigmentation under the distinctly gray pubescence gives a "dirty gray" appearance to the mature plants. The stems have a medium diameter but are strong. The mature plant presents a good profile for harvesting. Seed coats are yellow, hila are buff.

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22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Clay	Petiole angle	Corsoy
Leaf shape	Corsoy	Seed size	Hark
Leaf color	Corsoy	Seed shape	Hark
Leaf surface	Corsoy	Seedling pigmentation	Corsoy

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	121	2.2	36			39.8	22.7 %		
Name of similar variety Chippewa 64	121	2.2	37			41.7	21.1		

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

~~REVISED~~ RJS
EXHIBIT D

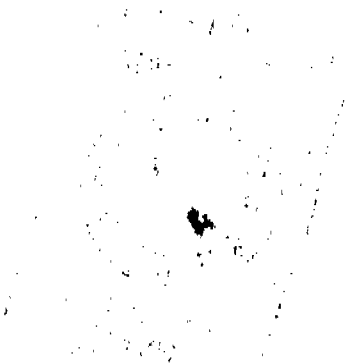
Data Indicative of Novelty in Hodgson Soybeans

'Hodgson' is most similar to 'Corsoy'; however, 'Hodgson' matures 8 to 10 days earlier, is several inches shorter, and has significantly better resistance to lodging. Also the tendency for opposite positioning of the first two trifoliolate leaves found in 'Hodgson' is not expressed in 'Corsoy'. Seeds of 'Hodgson' have buff hila; seeds of 'Corsoy' have yellow hila.

7400106

Exhibit E

The Minnesota Agricultural Experiment Station is the employer of the breeder, Dr. J. W. Lambert, and reserves all rights afforded by protection of the Hodgson variety.



OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Minnesota Agricultural Experiment Station

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

Institute of Agriculture

University of Minnesota

St. Paul, Minnesota 55101

FOR OFFICIAL USE ONLY

PVPO NUMBER

7400106

VARIETY NAME OR TEMPORARY
DESIGNATION

HODGSON

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:

☒ 1 = SPHERICAL ☐ 2 = SPHERICAL
FLATTENED ☐ 3 = ELONGATE ☐ 4 = OTHER (Specify)

2. SEED COAT COLOR:

☒ 1 = YELLOW ☐ 2 = GREEN ☐ 3 = BROWN ☐ 4 = BLACK SHADE: ☒ 1 = LIGHT ☐ 2 = MEDIUM ☐ 3 = DARK
☐ 5 = OTHER (Specify)

3. SEED COAT LUSTER:

☒ 1 = DULL ☐ 2 = SHINY

4. SEED SIZE

☒ 17 ☐ 3 GRAMS PER 100 SEEDS

5. HILUM COLOR:

☒ 1 = BUFF ☐ 2 = YELLOW ☐ 3 = BROWN ☐ 4 = GRAY ☐ 5 = IMPERFECT
BLACK ☐ 6 = BLACK ☐ 7 = OTHER (Specify) SHADE: ☒ 1 = LIGHT ☐ 2 = MEDIUM ☐ 3 = DARK

6. COTYLEDON COLOR:

☒ 1 = YELLOW ☐ 2 = GREEN

7. LEAFLET SIZE (See Reverse):

☒ 2 ☐ 1 = SMALL ☐ 2 = MEDIUM ☐ 3 = LARGE

8. LEAFLET SHAPE:

☒ 1 = OVATE ☐ 2 = OBLONG ☐ 3 = LANCEOLATE ☐ 4 = ELLIPTICAL ☐ 5 = OTHER (Specify)

9. LEAF COLOR (See reverse):

☒ 2 ☐ 1 = LIGHT GREEN ☐ 2 = MEDIUM GREEN ☐ 3 = DARK GREEN

10. FLOWER COLOR:

☒ 2 ☐ 1 = WHITE ☐ 2 = PURPLE
☐ 3 = OTHER (Specify)

11. POD COLOR:

☒ 2 ☐ 1 = TAN ☐ 2 = BROWN ☐ 3 = BLACK

12. POD SET:

☒ 1 ☐ 1 = SCATTERED ☐ 2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR:

☒ 1 ☐ 1 = GRAY ☐ 2 = BROWN ☐ 3 = OTHER (Specify)

SHADE:

☒ 3 ☐ 1 = LIGHT ☐ 2 = MEDIUM ☐ 3 = DARK

14. PLANT TYPES (See Reverse):

☒ 3 ☐ 1 = SLENDER ☐ 2 = BUSHY ☐ 3 = INTERMEDIATE

15. PLANT HABIT:

☒ 2 ☐ 1 = DETERMINATE ☐ 2 = INDETERMINATE
☐ 3 = OTHER (Specify)

16. HYPOCOTYL COLOR:

☒ 2 ☐ 1 = GREEN ☐ 2 = PURPLE

17. SEED PROTEIN:

☒ ? ☐ 1 = A ☐ 2 = B

18. NUMBER OF DAYS TO FLOWERING

(Place a zero in first box (e.g. 10 [9]) when
days are 9 or less.)☐ ☐ ☐

19. MATURITY GROUP:

☒ 3 ☐ 1 = 00 ☐ 2 = 0 ☐ 3 = I ☐ 4 = II ☐ 5 = III
☐ 6 = IV ☐ 7 = V ☐ 8 = VI ☐ 9 = VII ☐ 10 = VIII20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box
(e.g. 0 [0] [2]) when size is 9 mm. or less.)☐ ☐ ☐

MM. LENGTH

OF SEEDLING

short

☐ ☐

MM. LENGTH

OF COTYLEDON

☐ ☐

MM. WIDTH

OF COTYLEDON

21. DISEASE: (Enter 0 - Not Tested; 1 - Susceptible; 2 - Resistant)

☒ 1 BACTERIAL
PUSTULE☐ 0 SOYBEAN
CYST☐ 0 DOWNY
MILDEW☐ 0 PURPLE
STAIN☒ 1 POD AND
STEM BLIGHT☐ 0 ROOT
KNOT☒ 1 FROGEYE☐ 0 STEM
CANKER☒ 1 PHYTO-
PHTHORA☒ 1 BROWN
STEM ROT☐ 0 TARGET
SPOT☒ 1 BROWN
SPOT☐ 0 BUD
BLIGHT☐ 0 WILDFIRE☐ 0 RHIZOCTONIA
ROT☐ 0 OTHER (Specify)